2001

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

REC'D 3 1 OCT 2005

(PCT Article 36 and Rule 70)

WIPO PCT

									
Applicant's or agent's file reference	FOR FURTHER ACTION See Form PCT/IPEA/416								
International application No.	International filing date (da	y/month/year)	Priority date (day/month/year)						
PCT/SE2004/000896	09.06.2004		24.07.2003						
	International Patent Classification (IPC) or national classification and IPC								
B23P 15/26									
Applicant									
SWEP International AB et al									
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 									
2. This REPORT consists of a total of 3 sheets, including this cover sheet.									
3. This report is also accompanied b	y ANNEXES, comprising:								
a. (sent to the applicant and to the International Bureau) a total of 1 sheets, as follows:									
			e been amended and are the basis of this report						
and/or sheets	containing rectifications aut	horized by this Au	thority (see Rule 70.16 and Section 607 of the						
Administrative Instructions). sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes									
	isclosure in the international		d, as indicated in item 4 of Box No. I and the						
b (sent to the Internation		- -	number of electronic carrier(s))						
, containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the									
Administrative Instru	uctions).	•							
4. This report contains indications relating to the following items:									
	of the report								
Box No. II Priorit	у								
Box No. III Non-es	stablishment of opinion with	regard to novelty,	inventive step and industrial applicability						
Box No. IV Lack o	f unity of invention								
Box No. V Reason	ned statement under Article 3	5(2) with regard to	o novelty, inventive step or industrial						
	applicability; citations and explanations supporting such statement Box No. VI Certain documents cited								
Box No. VII Certain									
Box No. VIII Certain									
Date of submission of the demand		Date of completion of this report							
17.02.2005	,	18.10.2005							
Name and mailing address of the IPEA/S		Authorized officer							
Patent- och registreringsverket									
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Form PCT/IPEA/409 (cover sheet) (April 2005)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

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International application No.

PCT/SE2004/000896

Вох	No. I	Basis of the report					
1.	1. With regard to the language, this report is based on:						
		the international application in the language in which it was filed					
a translation of the international application into							
		h is the language of a translation furnished for the purposes of: international search (Rules 12.3(a) and 23.1(b))					
		publication of the international application (Rule 12.4(a))					
		international preliminary examination (Rules 55.2(a) and/or 55.3(a))					
2.	furnisi	With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):					
		the international application as originally filed/furnished					
	\boxtimes	the description:					
		pages 1-7 as originally filed/furnished pages* as originally filed/furnished					
		pages* received by this Authority on					
	\boxtimes	the claims:					
		pages 8 as originally filed/furnished					
		pages* as amended (together with any statement) under Article 19					
		pages* 9 received by this Authority on 27.04.2005					
	KA	pages* received by this Authority on					
	\boxtimes	the drawings:					
		pages 1-11 as originally filed/furnished					
		pages* received by this Authority on pages* received by this Authority on					
		a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.					
	<u> </u>	a soquence listing allow any related table(s) — see supplemental Box Relating to Sequence Listing.					
3.		The amendments have resulted in the cancellation of:					
	the description, pages						
		the claims, Nos.					
	the drawings, sheets/figs						
		the sequence listing (specify):					
		any table(s) related to the sequence listing (specify):					
4.		This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).					
		the description, pages					
	the claims, Nos.						
		the drawings, sheets/figs					
		the sequence listing (specify):					
		any table(s) related to the sequence listing (specify):					
*	If item	n 4 applies, some or all of those sheets may be marked "superseded."					

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/SE2004/000896

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims Claims	1-5	YES NO
Inventive step (IS)	Claims Claims	1-5	YES NO
Industrial applicability (IA)	Claims Claims	1-5	YES NO

2. Citations and explanations (Rule 70.7)

Documents cited in the International Search Report:

D1: GB 2129538 A
D2: US 4099928 A
D3: GB 2048130 A
D4: US 5908070 A

D5: US 2003/0121649 A1

New claims have been filed on 27 April 2005 where old claim 6 has been cancelled.

Claims 1-5

The invention defined in claims 1-5 is not disclosed by any of the cited documents.

The cited prior art does not give any indication that would lead a person skilled in the art to the claimed method of manufacturing a plate heat exchanger according to claims 1-5. Therefore, the invention claimed in claims 1-5 is not obvious to a person skilled in the art.

Accordingly, the invention defined in claims 1-5 is novel and is considered to involve an inventive step.

The invention is industrially applicable.

The Swedish Patent Office PCT International Application

PCT/SEZ004/000896 27-04-2005

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5. A method according to claim 1,

c h a r a c t e r i s e d in that the two holes in a pair of walls forming a port hole in a heat exchanger plate are of elliptic shape and angularly displaced (Figs. 16-20).

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AMENDED SHEET